

Gold King Mine Emergency Response Water Quality Data

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY • REGION 8 • AUGUST 2015

Water Quality Data August 9, 2015

pH Data (Acidity)

August 8 results indicate that the acidity level at Cement Creek has remained in the range of pH 3.6-4.03 since the release on August 5. At sampling loca @ons in the city of Durango, pH of the river ranges from 6.19-6.67.

Metals Data

Analy Cal results for August 7th samples are being processed. Samples collected on August 8th are being prepared for analysis and review. We an Caipate a 24-48 hour turnaround on sample analysis. As soon as we receive and evaluate these results they will be provided to the public.

Today EPA released a detailed data table of the sampling in Cement Creek and the upper por cons of the Animas River from August 5, the date of the incident, and August 6.

The Gold King Mine blowout occurred late in the morning on August 5th 2015. The contaminant plume moved downstream at approximately four miles per hour. At Cement Creek, which is downstream of the blowout, concentra and of metals throughout the first day following the blowout spiked above historical averages for copper, zinc and manganese. Twenty four hours a der the blowout the data indicate a decrease in those concentra and answer.

Data from the Animas River just below the town of Silverton showed an ini 🖨 lincrease in metals concentra cons with levels trending towards historical averages by the morning of August 6th, 2015.

Data from Bakers Bridge on the Animas River just above Durango showed an increase above historical averages as August 6th as expected with the arrival of the leading edge of the contaminant plume.

It is believed that subsequent data collec & n ac & i & sthroughout the region will demonstrate a decrease in contaminant levels in the river as the contaminant plume moves downstream.

Comparison of Surface Water Quality Data to Human Health and Agricultural Screening Levels

EPA has compared the surface water quality data collected on August 5th and 6th to screening levels for human health developed by EPA. The screening levels for human incidental inges and during recrea are based on an exposure dura an totaling 60 days, 8 hours/day. The State of Colorado has developed screening levels for agricultural exposure. The screening levels for agricultural exposure are based on an exposure dura an account of the screening levels for agricultural exposure are based on an exposure dura an account of the screening levels for agricultural exposure are based on an exposure dura and totaling 30 days.

Based on the data we have seen so far, EPA and ATSDR do not an & ipate adverse health e fects from exposure to the metals detected in the river water samples from skin contact or incidental (uninten & inges & on. Similarly, the risk of adverse e fects to livestock that may have been exposed to metals detected in river water samples from inges & on or skin contact is low. It is advisable to avoid areas with orange discolora & on in the river water.

Although the pH levels between Cement Creek and Durango have returned to baseline levels washing with soap and water a $\bar{\text{O}}$ er contact with the river water is a sound public health prac $\bar{\text{O}}$ ee to minimize exposure to the metals and bacteria that may be present in any untreated river water.

A Public Call Center has been set up at La Plata County's Emergency Opera 6bns Center. Please call 970-385-8700 to get answers and request assistance with well sampling.